

REVISED SCOPE OF WORK
7/15/16

REQUIRED LICENSES:

- (a) Divers must possess a commercial diving certification issued by the Association of Diving Contractors International (ADCI), the Association of Commercial Diving Educators/American National Standards Institute (ACDE/ANSI), or .
- (b) Certifications issued by the Professional Association of Diving Instructors, the National Association of Underwater Instructors, or any other recreational diving organization will not be accepted.
- (c) A detailed listing of all certified divers who will be working under this project must be provided along with the type of certification that they hold and proof of the certification held. This includes all Designated Persons in Charge, Diver Tenders, and Tended Divers.

PREVIOUS EXPERIENCE:

- (a) A minimum of three (3) years of verifiable prior experience in surface supplied air diving operations in confined spaces is required.
- (b) Contractor shall provide verifiable references that include providing line tended diving services similar in scope to this project.

A. BACKGROUND

The County has continuous blockages that inhibit proper flow of water in various raw water pump stations. The County needs experienced commercial divers to remove these blockages and dispose of the blockage materials as requested by the County.

B. SCOPE OF SERVICES

1. Contractor shall furnish all insurance, license fees, permit fees, transportation, materials, supplies, tools, equipment, apparatus, underwater photography and video services, tools, surface air supply systems, underwater communications equipment, supervision, labor, technical knowledge, skills, and all things necessary to:
 - a. Remove sand, silt, mud and debris from water mains, clearwells, tanks, reservoir leaf screens, reservoir valves, raw water pump intake wet wells, and traveling screen bays, from the river side of the bar screens, at the Holcomb Bridge River Station; and
 - b. Perform any additional requested services, such as but not limited to, potable or sewer water dives; underwater inspections; underwater video recording, repairs to underwater equipment, or dives at any other DeKalb County locations.
2. Because of the nature of the work, all items on the contract shall be awarded to a single contractor.
3. The County's Project Manager for this project is Jeff Winters, Maintenance Supervisor.
4. Contractors shall provide a standard work day consisting of ten (10) working hours per day.
5. Contractor shall provide a three (3) or four (4) man dive team as required for each diving operations and in compliance with all current diving rules, regulations, and best practices.
6. Requested Types of Dives

- a. Raw water pump station both inside the channels and out in front of the bar rakes. (located at the Chattahoochee & Holcomb Bridge Road).
- b. Potable water dives, pursuant to the additional requested services provision within the scope of work.
- c. Sewer water dives, pursuant to the additional requested services provision within the scope of work.

7. Minimum Equipment Specifications

- a. Pump equipment shall:
 - i. Be 6 inches
 - ii. Be able to pump 1,500 gallons per minute
 - iii. Have 70 feet of head
 - iv. Be able to pass solids up to 3 inches in diameter
- b. The discharge hoses shall be at least 350 feet.

8. General Requirements

- a. Work Schedule
 - i. Contractor to coordinate all work so that water production is not adversely impacted. Work schedules shall be dictated by water pumping requirements and by environmental factors such as inclement weather and high turbidity. The peak water demand period runs from May 1 to October 1 in a calendar year.
 - ii. The normal daytime schedule is 7:30 am to 5:30 p.m., Monday through Thursday; however, Filter Plant water production is a 24-hour operation, seven days per week, with operating personnel on duty. The raw water pumping station is not manned 24 hours a day. Contractor may be allowed to schedule diving operations before or after normal hours, upon obtaining permission.
 - iii. Contractor shall notify **Jeff Winters 770-391-6061 or Darryl Collins 770 391-6062**, to obtain permission to begin work and shall receive clearance before taking any operating equipment out of service. Work should be scheduled at least 48 hours in advance when possible. Plant operations will ALWAYS take priority over any diving services.
- b. Site Conditions
 - i. Chattahoochee River current is variable due to releases by the Army Corps of Engineers from Buford Dam. Surface river elevation may vary from an elevation of approximately 865.5 feet to 876 feet. Elevations may run higher during floods or lower during droughts. Contractor must document work progress by providing before and after videos.
 - ii. Contractor shall be responsible for obeying User Department's policies regarding use of parking spaces. Contractor will not be permitted to block driveways or loading docks during business hours.
 - iii. Contractor shall be responsible for maintaining a hazard-free work area. All tools, equipment, materials, apparatus, supplies, and parts shall be neatly stored in a designated area near the work site in full compliance with the National Institute for Occupational Safety and Health (NIOSH) and the Occupational Safety and Health Administration (OSHA) regulations. Contractor shall erect appropriate barricades and signs to safely route pedestrian traffic around job site.

- iv. Where available, Contractor may have limited use of water taps, faucets, or 120-volt single-phase electrical power.
 - v. Contractor shall be responsible for preventing removed sand, mud, and debris from clogging any downstream pump intakes at the Raw Water Pump Station or leaf screens and outlets from the Filter Plant Reservoirs.
 - vi. Contractor shall be responsible for providing own toilet facilities and fresh drinking water at remote sites where such facilities are not available. Contractor using county facilities will leave the facilities clean.
 - vii. Equipment **WILL NOT BE STORED** and/or dried **INSIDE** County facilities. Contractor is responsible for providing his own storage.
- c. **Mandatory Diving Operations Standards**
- i. Because of the potentially dangerous work in confined spaces, successful Contractors shall conform to the standards as indicated within this section. Contractors who cannot meet these standards will be considered non-responsible.
 - ii. Contractor shall be responsible for maintaining a hazard-free work area.
 - iii. All tools, equipment, materials, apparatus, supplies, and parts shall be neatly stored in a designated area near the work site in full compliance with OSHA regulations. Minimum requirements for diving operations and equipment shall be conducted in full accordance with OSHA Standard 29 CFR Part 1910, subpart "T" Standards and the most current ADCI Consensus Standards for Commercial Diving Operators.
 - iv. Contractor shall conform to OSHA Standard 29 CFR Part 1910.146 confined space regulations and to NIOSH standards as applicable. Divers employed by Contractor shall completely conform to the most current ADCI Consensus Standards for Commercial Diving Operators in all aspects of medical, physical, training and experience.
- d. **Spoil Testing, Permits and Licenses**
- Contractor shall be responsible for providing all permits required for compliance with any regulatory agency in order to perform work as requested here. Contractor shall be responsible for paying any fees associated with obtaining any permits or licenses required by the United States Federal Government, State of Georgia, U.S. Army Corps of Engineers, or DeKalb County, Georgia, to perform work under these specifications. Contractor shall be responsible for spoil testing, if required, by any regulatory agencies issuing permits. Regulatory agencies issuing permits will determine what tests, if any, will be performed on spoil samples. Such test may be required by the EPA, U.S. Army Corps of Engineers and various State or local entities. Copies of any environmental permits and spoil test results will be sent to the **ATTN: Jeff Winters or Sandy Smith, Scott Candler Filter Plant, 4830 Winters Chapel Road, Doraville, Georgia 30360.**
- e. **Materials, Services, and/or Equipment Furnished By County**
- Items, which are to be furnished by the County, will be provided on a timely basis if possible, so as not to delay work. However, work to be done by a contractor, and requiring parts provided by the County shall not commence until contractor has received all items that were to be supplied by the County, nor shall work begin until permission to start has been given by the County. Drawings supplied by the County are assumed accurate; however, contractor is responsible for field checking all locations, elevations, and measurements, before bidding any work. To facilitate work, the County, at its option, may

furnish a 225 amp AC/DC portable arc welder/generator, oxy-acetylene torch rig, two 2-inch canvas fire hose sections, one 2-inch red rubber fire hose, large portable air compressor, rubber tire front-end loader with operator and dump truck with driver for use by Contractor. Contractor shall offer price discount for equipment provided by the County. Contractor may have limited use of 120-volt single phase, 208-volt 3-phase electric power, and water taps, where available.

f. Additional Requested Services

In the event that the County requests additional services pursuant to B. SCOPE OF SERVICES, 1.b., the County will request a quote for such services and the Contractor shall provide a fixed lump sum price that includes a written, detailed cost breakdown, estimated completion time, and justification for the work in question. In all cases, contractor shall notify the County of any cost over-runs before the occurrence. Verbal approval between County representatives and Contractor's agents shall not be binding.

g. Kick-Off Meeting and Project Meetings

No work shall begin on the project until after the kick-off meeting is held. If the work scope warrants, the County shall reserve the right to regular site inspections and may schedule project meetings to review videos, monitor, and measure work progress. Once a meeting requirement is established, the Contractor shall assign the same people to attend the meetings and such people shall be duly authorized to function as agents for the Contractor and shall be empowered to make decisions and resolve disputes. Any underground installations shall be inspected by the County before covering.

h. Final Project Outcome

Payment for all completed requested services will be made when the Contractor completes the requested work in such a manner that the County is provided with a satisfactory visual inspection result.

9. DIVE SERVICES

- a. Contractor shall furnish dive services for the following but not limited to the Raw Water Pump Station intakes, pump suction intakes and lines, river channel, and traveling screen wells at the Holcomb Bridge River Station. Additional dive services may be requested for but not limited to inspections, video, photograph, repair, report and remove debris and other materials from Filter Plant reservoir leaf screens, potable or sewer water dives, and dives at any other location the County requires services.
- b. If requested and pursuant to B. SCOPE OF SERVICES, 1.b. and 8.f., repairs to underwater equipment shall be authorized on a time and material basis after the contractor provides a detailed quote for proposed services and upon performing an exploratory dive with video. Contractor shall furnish their own underwater welding apparatus, hand and power tools, and any other necessary equipment to complete the services.
- c. Contractor shall employ surface air supply with surface to underwater communications.
- d. Dive teams shall consist of a three or four man team for diving operations, consisting of no less than (1) dive supervisor, (DPIC), one (1) line tended diver and one (1) diver tender.

- e. On Demand Inspection Service
 - i. If requested and pursuant to B. SCOPE OF SERVICES, 1.b. and 8.f., Contractor shall perform as needed on demand inspection services on any Watershed equipment pursuant to approved submitted quotes.
 - ii. After inspections are completed, Contractor shall provide a detailed report of the findings to the County along with recommendations to correct any problems noted.
 - iii. Report shall include video recordings, descriptions, and sketches of sand, mud and debris quantities, levels, and locations.
 - iv. Contractor should be capable of repairing any deficiencies found. Transportation and subsistence shall be included in submitted quotes.
- f. Dredging of Material from Inside Wells, Intakes, and Screens
 - i. If Dredging is required, Contractor shall furnish supervision, labor, 6 inch dredge/vacuum pump, and hoses to vacuum silt, sand, and debris from pump intakes and screen wells.
 - ii. Dense packed mud and coarse debris such as trees, limbs, boards or other, may require hand removal or use of underwater saws, chain hoists and other hydraulic power packs or tools furnished by contractor.
- g. Material in front of Bar Screens/Bar Racks (In River Channel)
 - i. Contractor may be required to remove sand and/or relocate downstream any sand, loose silt, and submerged debris which has collected in front of the flex rakes.
 - ii. If the County decides to relocate the sand-silt downstream, the contractor must use a hydraulic submersible pump meeting the minimum specifications as outlined in section B. SCOPE OF SERVICES, 7.
 - iii. If the County decides to remove the sand-silt, contractor will utilize a sand-silt collections dumpster and a pump meeting the minimum specifications as outlined in B. SCOPE OF SERVICES, 7. Vendor shall provide a quote for use of the sand-silt collections dumpster as an additional requested service and pursuant to B. SCOPE OF SERVICES, 8., f.

10. DISAGREEMENTS

Should any disagreement or difference arise as to the estimate, quantities or classifications or as to the meaning of the specifications, or any point concerning the character, acceptability and nature of the several kinds of work, any materials and construction thereof, the decision by the Department of Watershed Management or its designated representative shall be final, conclusive, and binding upon all parties to the contract.

C. ATTACHMENTS

River Station Drawings